

## WHAT IS CLAIMED IS:

1           1.     A method for reporting communication records to at least one  
2 subscriber, the communication records of each subscriber including call transaction  
3 data corresponding to call transaction activity of the subscriber, the method  
4 comprising:

5                 receiving the call transaction data;  
6                 matching the call transaction data associated with the subscriber;  
7                 formatting the call transaction data; and  
8                 electronically transmitting the formatted call transaction data to the  
9 subscriber via electronic mail (e-mail).

11           2.     The method as in Claim 1, wherein electronically transmitting the  
12 formatted call transaction data to the subscriber via e-mail comprises transmitting  
13 the e-mail in a text format.

15           3.     The method as in Claim 1, wherein electronically transmitting the  
16 formatted call transaction data to the subscriber via e-mail comprises transmitting  
17 the e-mail in an HTML format.

19           4.     The method as in Claim 1, wherein electronically transmitting the  
20 formatted call transaction data to the subscriber via e-mail comprises transmitting  
21 the formatted call transaction data via the e-mail in a plurality of formats.

23           5.     The method as in Claim 1, wherein the formatted call transaction data  
24 comprises one or more of text, tables, graphs and maps.

26           6.     The method as in Claim 1, further comprising configuring formatting  
27 options by the subscriber.

29           7.     The method as in Claim 1, wherein the formatted call transaction data  
30 comprises at least a summary report portion and at least one detailed report portion.

1  
2           8.     The method as in Claim 1, wherein the e-mail includes a selectable  
3 option to change subscriber service.  
4

5           9.     The method as in Claim 8, wherein the change of subscriber service  
6 comprises at least one of an upgrade to a different subscriber service, a downgrade  
7 to a different subscriber service, and canceling the subscriber service.  
8

9           10.    The method as in Claim 1, wherein the e-mail includes  
10 advertisements.  
11

12           11.    The method as in Claim 1, wherein formatting the call transaction data  
13 comprises parsing through message content and replacing content variables with  
14 message content from call transaction data.  
15

16           12.    A method for reporting communication records to at least one  
17 subscriber, the communication records of each subscriber including call transaction  
18 data corresponding to call transaction activity of the subscriber, the method  
19 comprising:

20                   receiving the call transaction data;  
21                   matching the call transaction data associated with the subscriber;  
22                   formatting the call transaction data; and  
23                   electronically transmitting the formatted call transaction data to the  
24 subscriber.  
25

26           13.    The method as in Claim 12, wherein receiving the call transaction data  
27 comprises receiving an electronic representation of the call transaction data from a  
28 call switching system.  
29

1           14.    The method as in Claim 12, wherein matching the call transaction data  
2 associated with the subscriber comprises comparing a subscriber list to a subscriber  
3 identification associated with the call transaction data.  
4

5           15.    The method as in Claim 12, wherein formatting the call transaction  
6 data comprises arranging the data into a file capable of electronic transmission.  
7

8           16.    The method as in Claim 12, wherein electronically transmitting the  
9 formatted call transaction data comprises delivering the formatted call transaction  
10 data via a wireless application protocol (WAP).  
11

12           17.    The method as in Claim 12, wherein electronically transmitting the  
13 formatted call transaction data comprises delivering the formatted call transaction  
14 data via one or more of a network download, a wireless protocol, an FTP transfer,  
15 an audio signal, and an Internet phone.  
16

17           18.    The method as in Claim 12, wherein electronically transmitting the  
18 formatted call transaction data comprises delivering the formatted call transaction  
19 data via e-mail.  
20

21           19.    The method as in Claim 18, wherein delivering the formatted call  
22 transaction data via e-mail comprises delivering the e-mail periodically.  
23

24           20.    The method as in Claim 18, wherein delivering the formatted call  
25 transaction data via e-mail comprises delivering the e-mail upon request by the  
26 subscriber.  
27

28           21.    The method as in Claim 18, wherein delivering the formatted call  
29 transaction data via e-mail comprises delivering the e-mail upon occurrence of a  
30 predetermined event.  
31

1           22.    The method as in Claim 18, further comprising associating a  
2   geographic location to parties of each call engaged with the subscriber through  
3   analyzation of one or more location parameters included in the call transaction data,  
4   wherein the accuracy of the geographic location is a function of the location  
5   parameters.  
6

7           23.    The method as in Claim 18, further comprising verifying the validity of  
8   the call record data.  
9

10          24.    The method as in Claim 18, further comprising geocoding the call  
11   transaction data, wherein geocoding the call transaction data comprises associating  
12   a geographic region corresponding to the location of a non-subscriber party of each  
13   call.  
14

15          25.    The method as in Claim 18, further comprising geocoding the call  
16   transaction data, wherein geocoding the call transaction data comprises associating  
17   a longitude and latitude corresponding to the location of a non-subscriber party of  
18   each call.  
19

20          26.    The method as in Claim 18, wherein formatting the call transaction  
21   data comprises aggregating the call transaction records and geocoded data into a  
22   transportable file.  
23

24          27.    The method as in Claim 18, further comprising presenting the  
25   formatted call transaction data as a report to the subscriber, wherein the report  
26   comprises at least one of a table, a map, and a graph.  
27

28          28.    The method as in Claim 18, further comprising collecting the call  
29   transaction data corresponding to each subscriber by recognizing each of the  
30   subscriber's call transactions that traverses a communications hub.  
31

1           29.    The method as in Claim 28, wherein the communications hub  
2 comprises at least one of a telephone switch, router or bridge.

3  
4           30.    A call reporting apparatus for reporting communication records to at  
5 least one subscriber, the communication records of each subscriber including call  
6 transaction data corresponding to call transaction activity of the subscriber, the call  
7 reporting apparatus comprising:  
8                means for receiving the call transaction data;  
9                means for matching the call transaction data associated with the  
10 subscriber;  
11               means for formatting the call transaction data; and  
12               means for electronically transmitting the formatted call transaction data  
13 to the subscriber via electronic mail (e-mail).

14  
15           31.    A computer-readable medium having computer-executable instructions  
16 for facilitating the reporting of call records to at least one subscriber, the call records  
17 including call transaction data corresponding to call transaction activity of the  
18 subscriber, the computer-executable instructions performing steps comprising:  
19                receiving the call transaction data;  
20                matching the call transaction data associated with the subscriber;  
21                formatting the call transaction data; and  
22                electronically transmitting the formatted call transaction data to the  
23 subscriber.

24  
25           32.    A method for reporting calls having associated call transaction data,  
26 the calls being between a subscriber and at least one second caller, the method  
27 comprising:  
28                accessing the call transaction data;  
29                identifying the subscriber associated with each call;  
30                determining an approximate longitude and latitude of the second caller  
31 for each call using the call transaction data; and

1           delivering a call report including the approximate longitude and latitude  
2   for each call to the subscriber associated with the call.

3  
4           33.    The method as in Claim 32, wherein delivering the call report  
5   comprises delivering a hardcopy report.

6  
7           34.    The method as in Claim 32, wherein delivering the call report  
8   comprises delivering at least one storage media storing an electronically-perceivable  
9   representation of the call transaction data.

10  
11          35.    The method as in Claim 32, wherein delivering the call report  
12   comprises delivering the call report via electronic mail (e-mail).

13  
14          36.    The method as in Claim 35, wherein delivering the call report via e-  
15   mail comprises delivering the call report via e-mail for all calls occurring over a  
16   predetermined time period to the subscriber.

17  
18          37.    The method as in Claim 35, wherein the call transaction data includes  
19   at least one of calls placed by the second caller to the subscriber, and calls placed  
20   by the subscriber to the second callers.

21  
22          38.    The method as in Claim 35, wherein the call transaction data for a  
23   given call includes a postal code of the call originator for the given call and wherein  
24   determining an approximate longitude and latitude comprises using the postal code  
25   to obtain the approximate longitude and latitude of the call originator.

26  
27          39.    The method as in Claim 38, wherein the determining step comprises  
28   correlating the postal code with the longitude and latitude of a geographic centroid  
29   of an area defined by the postal code.

30  
31          40.    The method as in Claim 35, wherein the call transaction data includes

an area code of a telephone line number of the call originator and wherein the determining step comprises using the area code of the telephone line number of the call originator to obtain the approximate longitude and latitude.

41. The method as in Claim 40, wherein the determining step comprises correlating the area code with the longitude and latitude of a geographic centroid of an area defined by the area code.

42. The method as in Claim 35, wherein the call transaction data comprises an area code and exchange code of a telephone line number of the call originator and wherein the determining step comprises using the area code and exchange code of the telephone line number of the call originator to obtain the appropriate longitude and latitude.

43. The method as in Claim 42, wherein the determining step comprises correlating the area code and exchange code with the longitude and latitude of a geographic centroid of an area defined by the area code and exchange code.

44. A method for reporting call records of calls involving a call party, wherein each of the calls has associated call transaction data, the method comprising:

- accessing the call transaction data;
- identifying the call party associated with each call;
- verifying the validity of the call transaction data;
- generating a statistical report related to the call transaction data if the call transaction data is valid; and
- delivering the statistical report to the call party via electronic mail (e-mail).

45. The method as in Claim 44, wherein the verifying step comprises performing statistical analysis to determine whether certain variables fall within

parameters established using previously collected statistical call transaction data.

46. A method for reporting calls having associated call transaction data, the calls being between at least first and second callers, the method comprising:

accessing the call transaction data;

identifying a caller associated with each call;

analyzing the call transaction data to determine an approximate

geographical reference related to each call; and

electronically delivering to at least one caller a plurality of variable telecommunication transaction attributes associated with each call and correlated to the geographical reference for each call.